

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A vacuum suction system, comprising

a vacuum leak generation part,

a vacuum generation mechanism connected to the vacuum leak generation part, and

a vacuum level adjustment mechanism connected to the vacuum leak generation mechanism part, including a negative pressure sensor to detect a vacuum level of the vacuum leak generation part, and an adjustment part to adjust a vacuum the vacuum level of the vacuum leak generation part based on a signal from the negative pressure sensor,

wherein the vacuum leak generation part includes a table base disposed on a side of the vacuum generation mechanism, a vacuum suction channel, a conveyor table rotatably mounted on the table base, and a work receiving opening for receiving a work,

the work receiving opening being connected to the vacuum suction channel,

the negative pressure sensor detecting the vacuum level of the work receiving opening of the conveyor table, and

the adjustment part adjusting the vacuum level of the work receiving opening.

2. (Cancelled)

3. (Cancelled)

4. (Currently Amended) The vacuum suction system according to ~~claim 3~~ claim 1, wherein

a minute sectional suction channel is located between the vacuum suction channel and the work receiving opening on the side of the table base of the conveyor table.

5. (Currently Amended) The vacuum suction system according to claim 1, wherein the vacuum level adjustment mechanism includes ~~a negative pressure sensor to detect the vacuum level of the vacuum leak generation part,~~ a compressed air generation source for generating a compressed air, ~~and an~~

wherein the adjustment part is adapted to jet out the compressed air from the compressed air generation source to the vacuum leak generation part ~~based on a~~ on the signal from the negative pressure sensor.

6. (Original) The vacuum suction system according to claim 5, wherein the adjustment part jets out the compressed air based on the signal from the negative pressure sensor when the vacuum level rises above a maximum level, and stops the compressed air when the vacuum level falls below a minimum level.

7. (Currently Amended) A method of controlling a vacuum suction system, comprising

a vacuum leak generation part,

a vacuum generation mechanism connected to the vacuum leak generation part, and

a vacuum level adjustment mechanism connected to the vacuum leak generation ~~mechanism part~~ for adjusting a vacuum level of the vacuum leakage generation part, and including a negative pressure sensor to detect the vacuum level of the vacuum leak generation part, a compressed air generation source, and an adjustment part,

wherein the vacuum leak generation part includes a table base disposed on a side of the vacuum generation mechanism, a vacuum suction channel, a conveyor table rotatably mounted on the table base, and a work receiving opening for receiving a work,

the work receiving opening being connected to the vacuum suction channel,

the negative pressure sensor detecting the vacuum level of the work receiving opening of the conveyor table, and

the adjustment part adjusting the vacuum level of the work receiving opening,

the method comprising the steps of:

generating a vacuum in the vacuum leakage generation part by the vacuum generation mechanism,

detecting the vacuum level of the vacuum-~~leakage~~ leak generation part by the negative pressure sensor of the vacuum level adjustment mechanism, and

jetting out a compressed air from the compressed air generation source to the vacuum leak generation part by the adjustment part of the vacuum level adjustment mechanism based on a signal from the negative pressure sensor.

8. (Original) A method of controlling the vacuum suction system according to the method of claim 7, wherein

the adjustment part jets out the compressed air based on the signal from the negative pressure sensor when the vacuum level rises above a maximum level, and stops the compressed air when the vacuum level falls below a minimum level.

9. (Original) A method of controlling a vacuum suction system according to the method of claim 8, wherein,

the adjustment part jets out the compressed air intermittently based on the signal from the negative pressure sensor when the vacuum level rises above the maximum level.